## A. CLASSIFICATION OF SUBJECT MATTER IPC7: G01V 3/12, H010 1/38, H010 9/30, H010 25/00 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC7: G01S, G01N, H01Q Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched SE,DK,FI,NO classes as above Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EPO-INTERNAL, WPI DATA, PAJ, INSPEC C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Category\* Relevant to claim No. A E.S. Eide "Ultra-wideband transmit/recive antenna 1 - 3.5pair for ground penetratingradar" IEE Proceedings-Microwaves, Antennas and Propagation June 2000, Vol. 147, Nr 3, Pages 231-235 cited in the application A PATENT ABSTRACTS OF JAPAN 1,3 vol. 013, no.135 5 April 1989 (1989-04-05) & JP 63 304188 A (OSAKA GAS CO LTD), 12 December 1988 (1988-12-12) abstact Χl Further documents are listed in the continuation of Box C. See patent family annex. Special categories of cited documents: later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document defining the general state of the art which is not considered to be of particular relevance earlier application or patent but published on or after the international document of particular relevance: the claimed invention cannot be filing date considered novel or cannot be considered to involve an inventive document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) step when the document is taken alone document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination document referring to an oral disclosure, use, exhibition or other means being obvious to a person skilled in the art document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 22 January 2004 0 2 -02- 2004 Name and mailing address of the ISA/ Authorized officer Swedish Patent Office Box 5055, S-102 42 STOCKHOLM Bo Gustavsson/mj Facsimile No. +46 8 666 02 86 Telephone No.

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C (Continu	ation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No
A	PATENT ABSTRACT OF JAPAN vol. 013, no. 175 25 april 1989 (1989-04-25) & JP 1009387 A (KOMATSU LTD) 12 January 1989 (1989-01-12) abstract		1,3

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